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Linear and Logistic Regression

1. Shown below is a simple model to express drain current as a function of Gate-to-Source Voltage for a MOS transistor. The measurements made were tabulated, as shown below.

Drain Current I_d (mA)	Gate-to-Source Voltage (V)
0.734	1.1
0.886	1.2
1.04	1.3
1.19	1.4
1.35	1.5
1.50	1.6
1.66	1.7
1.81	1.8
1.97	1.9
2.12	2.0

(a) Develop the linear regression equation for the above data.

(b) Plot all the points, and compare how well they fit on the linear regression equation line.

(c) Find the error (for all entries in table) between predicted values obtained from linear regression equation, and actual values seen in the table.